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IAC-D-57/59.1
19 September 1957

PRIORITY NATIONAL GUIDED MISSILE INTELLIGENCE OBJECTIVES

First Priority Objectives

I. Soviet Capabilities for Nuclear Attack, using nuclear equipped weapon systems:

1. Surface-to-surface missiles of 500 nautical mile range or greater, including those with nuclear propulsion.
2. Submarine launched missiles of 200 nautical miles or greater.
3. Air-to-surface missiles of 40 nautical miles or greater.

A. Present Capability for Attack

1. Characteristics of existing operational weapon systems.
Characteristics of the weapon system include: type, range, accuracy, lethality, reliability, and vulnerability.
2. Numbers of missiles and associated launching and guidance equipment sets, in being, with production rates.
3. Characteristics of the launch bases, including site locations, launch site mobility, numbers of weapons in storage, possible targets, possible firing rate, logistical and operational features, and vulnerability.

B. Future Capability for Attack

1. Characteristics of the weapon systems fired and/or

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components tested on development ranges; and the status of the test program.

2. Specific functions and capabilities of institutes, plants and organizations engaged in the research, development, and production phases of the weapon systems and specialized auxiliary equipment.

3. Capability for development and production of nuclear warheads compatible in size, shape, and weight with the weapons above.

4. Requirements, plans and intentions for future weapon systems of equal or better capabilities.

C. Preparation for Attack

Indicators of preparations to use such weapon systems against other states, beyond the normally expected precautionary measures. Such activity is particularly significant when the political climate supports such suspicions and when coupled with adequate supplementary precautions in other fields--military, economic, and diplomatic. Indicators of preparation for attack include:

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1. Accelerated or decelerated test program on the ranges used for research and development, technique development, training or operational proficiency exercises.
2. Accelerated production of weapon systems.
3. Accelerated transportation of men and materials necessary to support such an operation, or the steady accumulation of these men and materials pointing toward a decisive concentration for such an operation.
4. A concentration of air or submarine forces capable of employing such weapon systems in appropriate staging or deployment areas.

D. Vulnerabilities

1. Susceptibility to detection, prior to employment, of the operationally ready weapon system.
2. Concentration of any critical components of the weapon systems in a few manufacturing or storage sites.
3. Susceptibility of the weapon system to in-flight malfunction through direct action by the defensive force.
4. Dependence of the weapon system on an open line of

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communications between essential elements of the system; e. g., supply depots, guidance stations, centralized command headquarters, etc.

II. Soviet Capabilities for Defense Against Air Attack, using nuclear or conventionally equipped weapon systems:

1. Surface-to-air guided missiles.
2. Air-to-air guided missiles.
3. Anti-ICBM guided missiles.

A. Present Capability for Defense

Characteristics and production of existing weapon system and of the launch bases:

1. Characteristics of existing operational weapon systems.

Characteristics of the weapon system include: type, range, accuracy, lethality, reliability, and vulnerability.

2. Numbers of missiles and associated launching and guidance equipment sets, in being, with production rates.

3. Characteristics of the launch bases, including site locations, launch site mobility, numbers of weapons in storage, possible targets, possible firing rate, logistical and operational features, and vulnerability.

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4. Capability for development and production of warning systems, including electronic, suitable for alerting the missile air defense system in adequate time.

B. Future Capability for Defense

1. Characteristics of the weapon systems fired on research and development ranges, and the status of the test program.

2. Specific functions and capabilities of institutes, plants and organizations engaged in the research, development, and production phases of the weapon systems and their specialized auxiliary equipment.

3. Capability for development and production of nuclear warheads compatible in size, shape, and weight with the weapons above.

4. Plans and intentions for future weapon systems of equal or better capabilities.

5. Capability for development and production of warning systems, including electronic, suitable for alerting the missile air defense system in adequate time.

6. Capability for development and production of missile guidance systems suitable for providing the guided missiles above with an adequate air defense role.

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C. Vulnerabilities

1. Susceptibility to detection, prior to employment, of the operationally ready weapon system, and the adequacy of the resultant warning time for appropriate countermeasures.
2. Concentration of any critical components of the weapon systems in a few manufacturing or storage sites, or the dependence on an exposed transportation route.
3. Susceptibility of the weapon system to on-the-ground or in-flight malfunction through direct action of the attacking force.
4. Dependence of the weapon system on an open line of communications to remote locations; e. g., supply depots, guidance stations, centralized command headquarters, etc.
5. Susceptibility of the launch base to air attack.

Second Priority Objectives

- I. The Status of Sino-Soviet Bloc Progress in the Fields of:
 - A. Solid propellants.
 - B. Improved high energy liquid propellants.
 - C. Advanced engines and associated components.

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- D. Structural improvements.
- E. Guidance systems, advanced in accuracy or reliability.
- F. Long range detection systems.
- G. Improved warheads.
- H. Improved fusing systems.
- I. Research and development programs on the above topics, especially those where a large increase in potential is expected.
- J. Technological developments leading to large increases in the military and economic potential.
- K. Organization and control of science.
- L. The general quality and quantity of the scientific and technical manpower.
- M. The general quality of the scientific and technical abilities of the armed forces.
- N. Future plans for technological programs.
- O. Technological weaknesses, indicating vulnerabilities in regard to the above items.

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II. Status of Sino-Soviet Bloc Economic Capability to Support a Major War with Regard to Items Critical to Guided Missile System Production

A. The motivation, character, magnitude and implementation economic programs in the following industries:

1. Electronics.
2. Precision mechanisms.
3. Chemicals.
4. Construction.
5. Transport.
6. High temperature alloys and materials.

B. The general quality and quantity of industrial manpower.

C. Industrial weaknesses, indicating vulnerabilities in the items above.

Third Priority Objectives

I. Scientific, Technological and Economic Developments in Western Europe as They Affect the Ability to Develop or Produce Guided Missiles and Guided Missile Components

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